Government of Madras.

PUBLIC WORKS DEPARTMENT.

IRRIGATION.
ACCOUNT.

Recd.	1915.	*Enclosures*
Regd.		*Spare copies*

G.O. No. 264 I., 27th May 1915.

N. P.

Improvements to No. 1 Branch channel, Periyar System, Madura Division

Sanctioning a deviation statement amounting to Rs. 7,359 including establishment charges for — .

Government of Madras.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

I

G.O. No. 274 I., dated 25th July 1912.

ABSTRACT.—Sanctioning, with remarks, an estimate of Rs. 7,909 inclusive of establishment charges for certain improvements to No. 1 Branch channel, Periyār system, Madura district.

II

Letter—from C. MILDRED, Esq., A.M.I.C.E., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 6th April 1915.
No.—695-C.E./679 (d).

I have the honour to forward herewith, for favour of your approval, a deviation statement for the above work for which an estimate amounting to Rs. 6,430 for works was sanctioned in G.O. No. 274 I., dated 25th July 1912.

The reasons for deviating from the sanctioned proposals are clearly explained in the report accompanying the deviation statement.

I have inspected this channel and recommend that the alterations proposed may be approved. Very early approval of the deviation statement is requested so that the work can be completed this closure.

The sanctioned estimate and previous deviation statements approved in this office are also sent herewith.

ENCLOSURES.

(i)

Report to accompany the deviation statement for improvements to the 1st Branch channel, Periyār system.

In G.O. No. 274 I., dated 25th July 1912, an estimate was sanctioned for improving the 1st Branch channel. This estimate provided for—

(1) Redesigning the drops to a trapezoidal section with an F.S.L. and an M.W.L. the former to supply the direct ayacut alone at a duty of 90 and the latter to supply the total ayacut indirect and direct also at a duty of 90. The bed widths of the channel between the drops to suit the F.S.Ls. and M.W.Ls. proposed were worked out by Kutter's formula and the existing widths were to be contracted to the calculated widths by means of brushwood and roughstone sections.

(2) A bund was to be made between the channel and Vadagarai tank so as to separate the channel from the tank and a new sluice was to be built in this bund by which the tank could be supplied from the channel when water was required in the tank, and by which conversely water could be taken from the tank into the channel when the former held a good supply.

(3) A regulating vent was to be built where the old Vadagarai channel tailed into the 1st Branch channel.

(4) All temporary pipe sluices in the lower reaches below Vadagarai tank were to be removed and the lands under them were to be supplied by cross-works by which the water from Vadagarai tank was to be taken under the channel to supply these lands.

(5) The bed of the channel between drop No. 4 and the old head sluice in Vadagarai tank bund was to be deepend to give a regular fall of 6 feet per mile. This was to entail the rebuilding of three sluices at a cost of Rs. 1,080 and it was stated that 2 or 3 acres of high level lands in that reach would be thrown out of cultivation but that they could be cultivated if lowered by about 6 inches.

2. When the work was begun in the closure of 1913 it was found that the rates for the various masonry works were too low and higher rates had to be provided. A deviation statement allowing higher rates was sanctioned, the excess being met with by omitting the provision for roughstone sections and substituting for them brushwood and turfing and by various other savings. At the end of the closure the alterations to the drops above Vadagarai tank were completed, the new bund between the channel and tank was nearly finished, the new sluice in the bund leading into the tank was about three-fourths completed. A concrete arched tunnel was proposed for this sluice but in order to save time as the closure was very short, covering stones were substituted as they were easier to get and could be built in more quickly. The inlet from Vadagarai channel was completed. The undertunnels below Vadagarai tank were about half finished. The banks were made up as much as possible by earth dug from the channel bed and reeds and undergrowth were cleared from the channel bed. The alterations to the drops below the tank were not done. The three sluices between drop No. 4 and the tank head sluice were not touched. Some of the new sluices near the tail end were built and the others half built. During the following irrigation season the channel was straightened and cleared and contracted by brushwood work and turfing, this being continued throughout the year and by the end of the season the channel was very much improved.

3. (1) It was realised early in the season that it would be advisable to modify the sanctioned proposals in some respects. In the first place when the M.W.L. was passed down, the banks above the drops were not high enough and were in danger of breaching, as it was not possible to strengthen them during the irrigation season, and as it seemed that there was no necessity to hold up 3·5′ above the drops the large cutstones with which the trapezoidal vents were formed were cut down as shown in the accompanying sketch *|so that the height of the trapezoidal vent was reduced from 3·5 to 2·5. This gave more than sufficient head on the sluices above the drops at all stages. The ventways above the 2·5′ height were rectangular as before, as shown in the sketch. It was also found that the F.S.Ls. and M.W.Ls. proposed did not give sufficient supply for the ayacuts and this was due in the main to the ayacut being greater than was allowed for in the designs, and it is also probable that the vents did not discharge as calculated, the co-efficients in Nethersole's formula being probably too high. The undue contraction of the drops above Vadagarai tank also introduced a serious drawback in the working of the system in that it prevented us from sending spare water down the channel and storing it in Vadagarai tank. It has always been the custom, whenever there are freshes in the river during June and July and early August to take as much water as possible into the canal and send it down to the large tanks. Such stored water is extremely useful during the very dry season middle of August to middle of October when the single crop area is being supplied and when there is such a heavy demand, and it would be difficult to manage without it. Vadagarai tank being a large tank with a big ayacut, and it being possible to pass water from it to the tanks and lands supplied by the lower reaches of the 1st Branch channel and it being near the head of the canal was always one of the principal tanks into which such spare water was passed. It is advisable therefore that the drops should be capable of taking more water than is required at a certain duty for the ayacut. The sections now adopted allow of this being done.

(2) It was also found during the season that contrary to expectations water could not be passed into Vadagarai tank through the new sluice in the new bund unless water was held up above the old head sluice in the old bund as before, this being due to the fact that the bed of the tank in rear of the new sluice was much higher than the deep bed of the tank and the sill of the new sluice. Digging a channel in the tank bed was out of the question, as it should be dug for a considerable length and was bound to fill in every year. In the report to the sanctioned estimate it is stated that Vadagarai tank receives a very good supply throughout the season, and it seems to be implied that it would rarely require supply from the 1st Branch channel. Such has not been the experience of the last three years especially during the Kodai season, and it has been necessary to supply the tank from the channel for long periods. It was only in November that the tank received a good supply from its own catchment. This being so it was thought that as long as water had to be held up in this way it was very little use to do the very heavy clearance proposed between drop No. 4 and the old head sluice, as silt was bound to be deposited again. Apart from this it is not clear why the proposed clearance is necessary or what good it is expected to do, and why it should be considered necessary to rebuild the three sluices in this reach. Since the new bund was made the reach has worked very well during two seasons, there has been no trouble with the sluices and it would seem that there is no necessity to do any clearance or to make any changes in the sluices. If they are lowered as proposed five acres of permanent wet lands worth about Rupees 1,000 per acre will be thrown out of cultivation, as they are about 2′ on the average above the

* Not reproduced.

proposed sill levels of the sluices. As the lands are permanent wet we are bound to supply them, and if the sluices are lowered as proposed they must be acquired at a cost of about Rs. 5,000 The omission of this clearance would therefore result in a saving of over Rs. 6,000 *plus* the cost of the clearance. A section showing (1) proposed bed level and proposed sluice sill levels in this reach, (2) the original bed level when the original levels were taken in 1911, (3) the bed levels in March 1913 and May 1914 is forwarded with this report. It is proposed that the reach should be left as it is and that it should be watched for a few years and if it is found then that any modification is required it can be carried out under a separate estimate.

(3) Besides the three sluices proposed to be rebuilt in this reach there are two other old brick sluices formerly tank sluices. For some reason, these were omitted from consideration in the improvement estimate. As they were unregulated and were found to waste a lot of water it was necessary to provide them with shutters with locking arrangements. A plan showing how the regulating arrangements were fitted accompanies. It may be noted that the sills of the new vents provided are at the present bed levels of the channel. The levels can be easily altered at any time at a trifling cost if alteration is required.

4. It is proposed to modify the designs for the drops below the tank as was done with the drops above the tank. A hydraulic statement (statement B) showing the modifications proposed accompanies. In that statement the correct up to date ayacuts for each reach from the head are given, the discharge required for the direct ayacut at a duty of 60 and for the total ayacut at a duty of 90, the discharge provided at the drops at F.S.L. and M.W.L. and the bed widths required to give these discharges. A statement (statement A) giving the correct ayacut of each reach also accompanies. In this statement the correct mileages of the various works are given, the mileages given in the improvement estimate having been found to be incorrect. A duty of 60 instead of 90 is proposed for the direct ayacut, as a duty of 90 cannot be worked to during the kodai season. Kodai is now given on nearly all the lands as far as drop No. 8, there being very little grown below this point. It may be that kodai will be grown on the lower lands too in time and it is necessary to provide for this. Till this happens a less supply than the 60 duty requires can be passed down, there being sufficient head on the sluices even with less than 1′ depth above the drops.

5. A deviation statement for Rs. 6,053 is forwarded for sanction. This statement provides for increased rates for the sluice leading into Vadagarai tank, the sanctioned rates being much too low. It also provides for the change from a concrete barrel for the sluice to a barrel covered with stone slabs. A plan showing this latter alteration accompanies. It provides for the new locking arrangements to the two old sluices below drop No. 4, and omits the provision for rebuilding the three sluices below drop No. 4. If this deviation statement and the proposals now made receive approval the improvement estimate can be closed this year. The training of the channel and the raising its banks can be continued for a few years under repairs till the channel is finally brought to the section required.

6th *February* 1915.

M. O'BRIEN,
Executive Engineer, Madura Division.

(ii)

Estimate Form—Comparative statement of differences.

Description of work.	Original estimate. Quantity.	Original estimate. Rate.	Original estimate. Amount.	Revised estimate. Quantity.	Revised estimate. Rate	Revised estimate. Amount.	More.	Less.	Explanation of difference.
Improvements to the 1st Branch channel, Periyar system.		RS.	RS.		RS.	RS.	RS.	RS.	
I. Works above Vadagarai tank.									
(1) Regulator and culvert at the junction of Vadagarai channel and the 1st Branch channel	1	..	520	1	..	595	75	..	The lump sum provision allowed in the original estimate for the *screw-gearing shutter* was very inadequate. The actual cost has been quoted by the Superintendent of Public Works Department Workshop.
(2) Pipe sluice, 6″ dr., at 1-3-330.	1	..	185	..	..	..	..	185	It was proposed originally to rebuild these three pipe sluices after lowering the bed of the channel between drop No. 4 and No. 5. But in actual practice the channel was found to work satisfactorily with its *present bed level* and hence the lowering the sluices is unnecessary.
(3) Pipes sluice, 6″ dr., at 1-6-0.	1	..	205	..	..	..	..	205	
(4) Pipe sluice, 9″ dr., at 2-2-490.	1	..	690	..	..	..	..	690	
(5) Constructing a masonry head sluice in front of the Vadagarai tank sluice at 2-3-640 ft.	1	..	990	..	..	1,460	470	..	The increase is due to the *increased rates* now provided for the masonry works *below* Vadagarai tank with the sanction of the Superintending Engineer, the rates in the original estimate being too low.
(6) Grade walls with roughstone dry packing.	6	20 (each).	120	6	20	120	..	..	....
II. Works below Vadagarai tank.									
(7) Constructing undertunnel at 3-0-490.	1	..	610	1	..	750	140	..	The increase is due to the *increased rates* now provided for the masonry works below Vadagarai tank with the sanction of the Superintending Engineer, the rates in the original estimate being too low.
(8) Iron pipe aqueduct at 3-4-500.	1	..	90	1	..	105	15	..	
(9) Iron pipe aqueduct at 3-4-595. (10) Iron pipe aqueduct at 3-6-460.	2	85 (each).	170	2	..	200	30	..	
(11) Constructing an undertunnel at 4-3-0.	1	..	560	..	..	675	115	..	
(12) Constructing an undertunnel at 4-4-390.	1	..	595	..	..	725	130	.	
(13) Pipe sluice, 9″ dr., at 5-3-220. (14) Pipe sluice, 9″ dr., at 6-1-50. (15) Pipe sluice, 9″ dr., at 6-1-70.	1 / 1 / 1	..	345	..	..	405	60	..	
(16) Regulator and side sluices at 6-4-390.	1	..	240	1	..	285	45	..	
(17) Converting rectangular drops into trapezoidal notches.	12	..	300	12	..	300	..	..	....
(18) Grade walls with roughstone dry packing.	27	..	810	6	..	295	..	515	The roughstone grade walls have been omitted and brush wood and turfing substituted.
(19) Improvements to Sengamadai brick sluice at 1-7-256.	..	..	..	1	..	78	78	..	Though this was omitted in the original estimate for some reason, improvements for this sluice have been found necessary as it was unregulated and wasted a lot of water.
(20) Improvements to Puliamadai sluice at 2-0-122.	..	..	..	1	..	64	64	..	
			6,430			6,057	1,222	1,595	
								1,222	
						Net gain ..	=	373	

III

Note by the Chief Engineer for Irrigation, No. 2730/15-B-1, dated 22nd May 1915.

An estimate amounting to Rs. 6,430 (for works) for improvements to No. 1 Branch channel, Periyār system, Madura district, was sanctioned in G.O. No. 274 I., dated 25th July 1912. It is stated that when the work was commenced in 1913, the rates for masonry works were found to be low owing to rise in the price of materials and labour charges and that a deviation statement for Rs. 6,750 involving an excess of Rs. 320 over the original estimate was sanctioned by the Superintending Engineer in June 1913. It is further reported that, after seeing the result of the straightening of the channel, of clearing the bed and contracting the section by brushwood work and turfing, it was realised, while the works were in progress in 1914, that it would be advisable to carry out certain modifications in the original proposals.

2. The Superintending Engineer with his letter No. 695-C.E./679 (*d*), dated 6th April 1915, submits a deviation statement, in the shape of a revised estimate for Rs. 6,057 showing a saving of Rs. 373 on the original estimate, sanctioned in the Government Order referred to above, as detailed below:—

Items.	As per original sanction.	As per deviation statement.	Excess.	Less.
	RS.	RS.	RS.	RS.
(1) Constructing a combined culvert and regulator on the right bank of No. 1 branch where old Vadagarai channel joins it ..	520	595	75	..
(2) Constructing three pipe sluices at 1-3-330, 1-6-0 and 2-2-490	1,080	..	..	1,080
(3) Constructing three pipe sluices at 5-3-220, 6-1-50 and 6-1-70	345	405	60	..
(4) Constructing sluice for the supply of Vadagarai tank ..	990	1,460	470	..
(5) Constructing three undertunnels and three iron pipe aqueducts	2,025	2,455	430	..
(6) Improving regulator at 6-4-390	240	285	45	..
(7) Converting 12 rectangular drops into trapezoidal notches ..	300	300	..	..
(8) Constructing 33 roughstone grade walls	930	415	..	515
(9) Improving the two existing sluices	..	142	142	..
Total ..	6,430	6,057	1,222	1,595

Item 1.—The excess is due to increase in the cost of the screw-gearing shutters as reported by the General Superintendent, Public Works Workshops.

Item 2.—Saving is due to the omission of the three pipe sluices which are now considered unnecessary.

Items 3, 5 *and* 6.—The excesses under these items are due to increase in rates considered necessary.

Item 4.—Out of the excess of Rs. 470 under this item, Rs. 304 is due to increase in rates, Rs. 71 is due to substitution of cutstone covering slabs over the tunnel for concrete arch and Rs. 95 is due to increase in the cost of the screw-gearing shutters as reported by the workshops.

Item 8.—Saving is due to the substitution of brushwood work and turfing for the 33 roughstone grade walls originally proposed.

Item 9.—Improvements to the existing sluices at 1-7-256 and 2-0-122 not provided for originally are now found necessary.

The total excess owing to increase in rates, increase in cost of screw-gearing shutters, substitution of cutstone covering slabs for concrete arch and to omission in the original estimate is Rs. 1,222. Savings due to works provided for in the original estimate but now considered unnecessary Rs. 1,595. Net saving Rs. 1,595—1,222=Rs. 373.

3. It is also reported that slight modifications in the notches of the drops have now been made so as to carry supply for the direct irrigation at a duty of 60 against 90 originally proposed as the higher duty cannot be worked to during the kodai season. But these alterations do not however affect the total amount allowed in the original estimate for improving the drops.

In the circumstances reported the deviation statement is recommended for approval.

W. M. ELLIS, Col., R.E.,
Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department
(Irrigation Branch).

Order—No. 264 I., dated 27th May 1915.

The deviation statement for the work "Improvements to No. 1 Branch channel," Periyār system, amounting to Rs. 6,057 for "works" or Rs. 7,359 inclusive of establishment charges, submitted by the Chief Engineer for Irrigation, is sanctioned in supersession of the estimate amounting to Rs. 7,909 sanctioned in G.O. No. 274 I., dated 25th July 1912.

(True Extract.)

W. M. ELLIS, Col., R.E.,
Secretary to Government, P.W.D.
(Irrigation Branch).

To the Superintending Engineer, VI Circle,
with plans and estimates.
" Accountant-General, Madras.

PUBLIC WORKS DEPARTMENT
(IRRIGATION BRANCH).

NOTES CONNECTED WITH G.O. No. 264 I., DATED 27TH MAY 1915.

[SUBJECT.—*Deviation statement for the work of improvements to the 1st branch channel, Periyār system, Madura district.*]

From the Superintending Engineer, VI Circle, dated 6th April 1915, No. 695 C.E./679 (d).

With his letter read above, the Superintending Engineer, VI Circle, submits a deviation statement for certain improvements to No. I branch channel, Periyār system, for which an estimate amounting to Rs. 6,430 for "works" was sanctioned in G.O. No. 274 I., dated 25th July 1912. A deviation statement for Rs. 6,750, so far as the deviations were within the Superintending Engineer's powers of sanction, was approved by the Superintending Engineer in C.R. No. 2 of 1913–14.

2. The deviation statement now submitted provides certain alterations and modifications found necessary during the execution of the work and their scope has been explained in the report accompanying. The deviations involve a material departure from the sanctioned estimate as summarised by the Superintending Engineer in paragraph 1 of the report and require the sanction of Government.

3. The Superintending Engineer after inspection of the channel recommends that the alterations may be approved. The deviations result in a savings of Rs. 373 on the sanctioned estimate. It is for orders whether the statement be checked for sanction.

T.S.N.—26-4-15.

M.S.V.—27-4-15

F. E. MORGAN—29-4-15.

Check.

W. M. ELLIS—29-4-15.

The estimate and hydraulic particulars have been checked—

Amount of the original estimate sanctioned in G.O. No. 274 I., dated 25th July 1912, Rs. 6,430.

Amount of the deviation statement approved by the Superintending Engineer in 1913, Rs. 6,750.

Amount of the final deviation statement now submitted for sanction, Rupees 6,057.

Saving on the original sanction, Rs. 6,430—6,057 = Rs. 373 as detailed below :—

	RS.
(a) The excess due to increase in the rates of masonry works ...	839
(b) Substitution of cutstone covering slabs over the tunnel for concrete arch	71
(c) Excess due to increase in the cost of screw gearing shutters ..	170
(d) Improvements to the two existing sluices not provided for in the original estimate but now considered necessary	142
Total excess ...	1,222
Savings due to omission of three pipe sluices which are now considered unnecessary and substitution of brushwood work and turfing for roughstone gradewalls	1,595
Net saving Rs. 1,595—1,222 =	373

It is also stated that slight alterations in the notches of the drops have now been carried out so as to carry supply for the direct irrigation at a duty of 60 instead of 90 as originally proposed as it cannot be worked to a duty of 90 during the kodai season, but the alteration does not affect the total amount allowed for drops. A revised comparative statement comparing the cost of the items in the original estimate with the final deviation statement is prepared and put up.

A draft note by the Chief Engineer for Irrigation is put up for approval.

M.V.—18-5-15.
R.S.—18-5-15.

F. E. MORGAN—22-5-15.
W. M. ELLIS—22-5-15.

A draft order sanctioning the deviation statement is submitted for approval and orders to issue.

M.S.V.—24-5-15.

G.V.—24-5-15.

F.E.M.—25-5-15.

[Issued as G.O. No. 264 I., dated 27th May 1915.]

From the Supg. Engineer, VI circle No 695 CE / 679 (A) dy 6th april 1915

Print

Topi-garden

10

Note by the Chief Engineer

for Irrigation. No 2730/15 B.1 d/ 22.5.15

An estimate amounting to Rs.6,430 (for works) for improvements to No.1 Branch channel Periyar system, Madura Dt, was sanctioned in G.O.No.274-I dated 25th July 1912. It is stated that when the work was commenced in 1913, the rates for ~~some of the~~ masonry works were found to be low owing to rise in the ~~cost~~ price of materials and labour charges and that a deviation statement for Rs.6,750 involving an excess of Rs.320 over the original estimate was sanctioned by the S.E. ~~himself~~ in June 1913. It is further reported, that, after seeing the result of the straightening of the channel, of clearing the bed and contracting the section by brushwood work and

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and turfing ~~carried out~~, it was realised, while the works were in progress in 1914, that it would be advisable to carry out certain modifications in the original proposals.

2. The S.E. with his letter No. 695 C.E/679-d dated 6th April 1915 submits a deviation statement, in the shape of a revised estimate for Rs. 6057 showing a saving of Rs. 373 on the original estimate, sanctioned in the G.O. referred to above, as detailed below:-

Items.	As per original sanction	As per deviation statement	Excess	Less
	Rs	Rs	Rs	Rs
(1) Constructing a combined culvert and regulator on the right bank of No.1 Branch where old Vadagarai channel joins it.	520	595	75	-
(2) Constructing 3 pipe sluices at 1-3-330, 1-6-0 and 2-2-490	1080	-	-	1080
(3) - do --at 5-3-220, 6-1-50 and 6-1-70	345	405	60	-
(4) - do --sluice for the supply of Vadakarai tank	990	1460	470	-
(5) - do --3 under tunnels and 3 iron pipe aqueducts	2025	2455	430	-
(6) Improving regulator at 6-4-390	240	285	45	-
(7) Converting 12 rectangular drops into trapezoidal notches	300	300	-	-
(8) Constructing 33 roughstone grade walls	930	415	-	515
(9) Improving the 2 Existing sluices	-	142	142	-
Total	6430	6057	1222	1595

11

Item 1. The excess is due to increase in the cost of the Screw gearing shutters as reported by the General Superintendent P.w. Workshops.

Item 2. Saving is due to the omission of the 3 pipe sluices which are now considered unnecessary.

Items 3,5,&6 - The excesses under these items are due to increase in rates considered necessary.

Item 4. Out of the excess of Rs.470 under this item, Rs.304 is due to increase in rates, Rs. 71 is due to substitution of cutstone covering slabs over the tunnel for concrete arch and Rs. 95 is due to increase in the cost of the Screw gearing shutters as reported by the workshops.

Item 8. Saving is due to the substitution of brushwood work and turfing for the 33 roughstone grade walls originally proposed.

Item 9. Improvements to the existing sluices at 1-7-256 & 2-0- 122 not provided for originally are now found necessary.

The total excess owing to increase in rates, increase in cost of Screw-gearing shutters, substitution of cutstone covering slabs for concrete arch and to omission in the original estimate is ——— Rs.1,222

Savings due to works provided for in the original estimate but now considered

13/12

138

considered unnecessary ——— 1,595

Net saving Rs. 1595- 1222 = Rs. 373.

3. It is also reported that slight modifications in the notches of the drops have now been made so as to carry supply for the direct irrigation at a duty of 60 against 90 originally proposed as ~~it~~ the higher duty cannot be worked ~~at a duty of 90~~ to during the Kodai season. But these alterations do not however affect the total amount allowed in the original estimate for improving the drops.

In the circumstances reported the deviation statement is recommended, ~~to~~ for ~~be approved~~. approval.

R.P.
19.5.15

20/5/15

22/5/15

To
The Secy to Govt: P.W.D. (Irrign)

13

Sectt. II—10 (a)—7,000—4-13.

P.W. DEPARTMENT.

Improvements to No. 1 Branch Chl Periyar System, Madura Dt.
Canals & Chls
15 Estimates

Sanctioning a deviation statement amounting to Rs 7,359 inclusive of estab. charges for —

READ AGAIN G.O. No. 274 I, dated 25th July 1912.

" " " " ...., " .... 191 .

READ ALSO:—

C. No. 2730/15 From the Chief Engr for Irrigation No. 2730/15-B.1, dated 22. 5. 1915.

" " ...., " " ...., " ...., " .... 191 .

" " ...., " " ...., " ...., " .... 191 .

ORDER.

Press

No. 264 I, dated 27. 5. 1915.

14 P.

The deviation statement for the work "Improvements to No. 1 Branch channel" Periyar System, amounting (Rs 6057 for 'works' or) to Rs 7,359 inclusive of establishment charges ~~as~~ submitted ~~[illegible]~~ by the Chief Engineer for Irrigation is sanctioned in supersession of the estimate amounting to Rs 7,909 sanctioned in G.O. No. 274-I, d/ 25.7.1912.

Issue
24/5/15

DESPATCHED
Date 31/5
Enclos. 15 Este & 5 tracings D.S.E.

To

S.E. VI with plans & estimates / Spare copies despd 1/7
A.G. Madras + 80 copy despd 1/7
Not E.T.